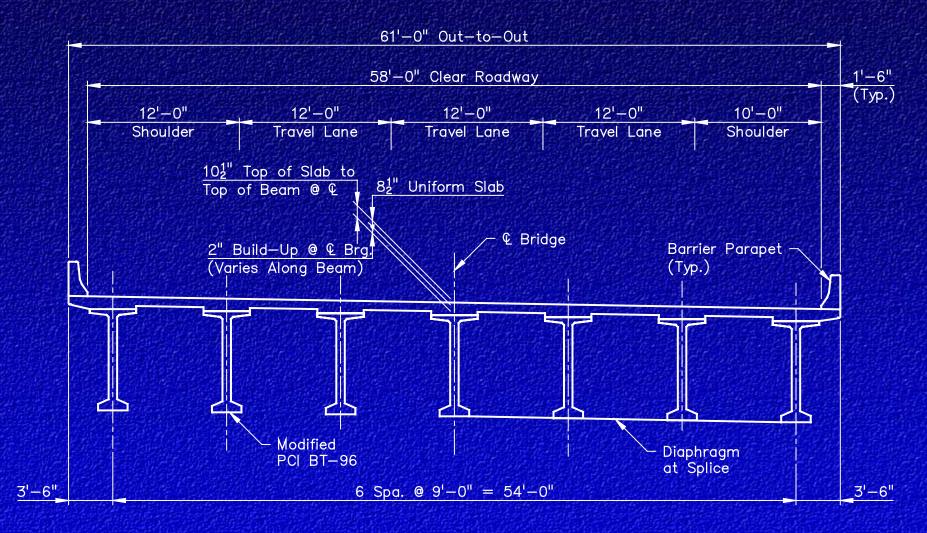
# Comprehensive Design Examples

### Design Examples

#### All three are spliced girders

- Simple span spliced PCI BT-96 girder
- Two-span spliced U-beam girder
- Continuous three span girder

# Simple Span Design Example

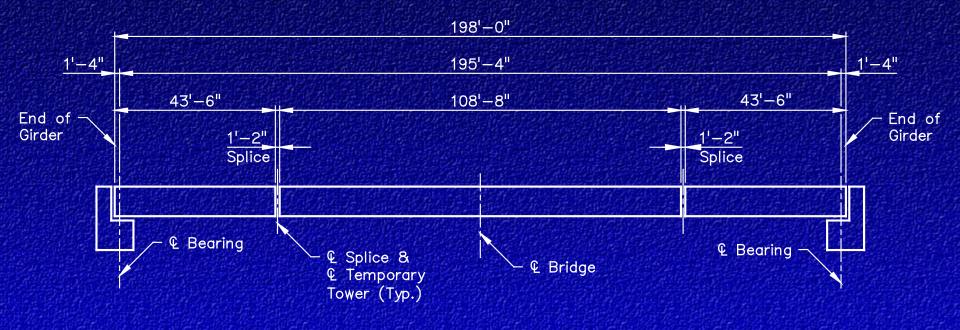


TYPICAL HALF SECTION

HALF SECTION AT SPLICE

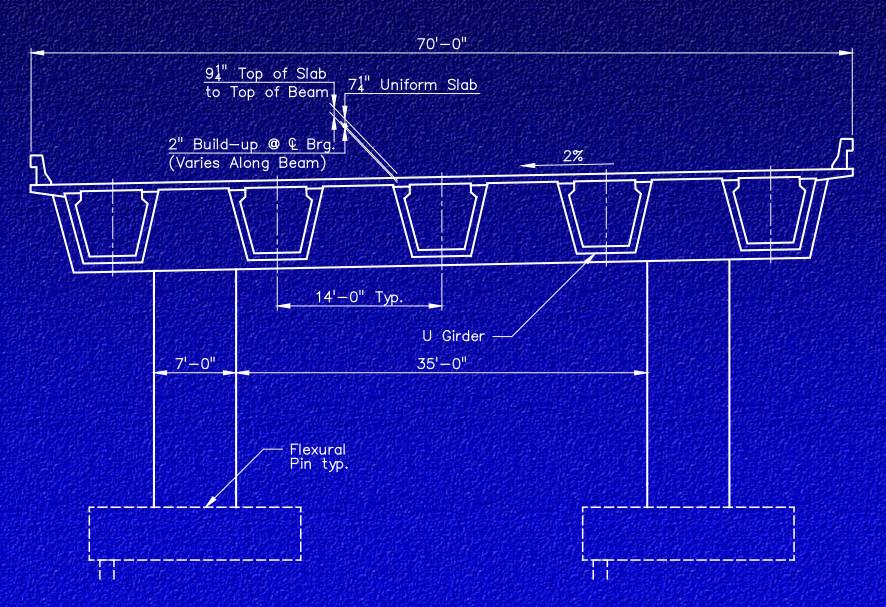
ACEC/NCDOT Spliced Girder Workshop

### Simple Span Design Example

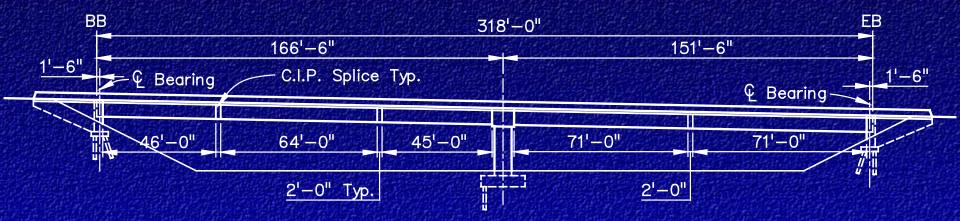


- Three girder segments
- Falsework towers at splices
- All six tendons are stressed after splices and deck are cast

# Two Span Design Example

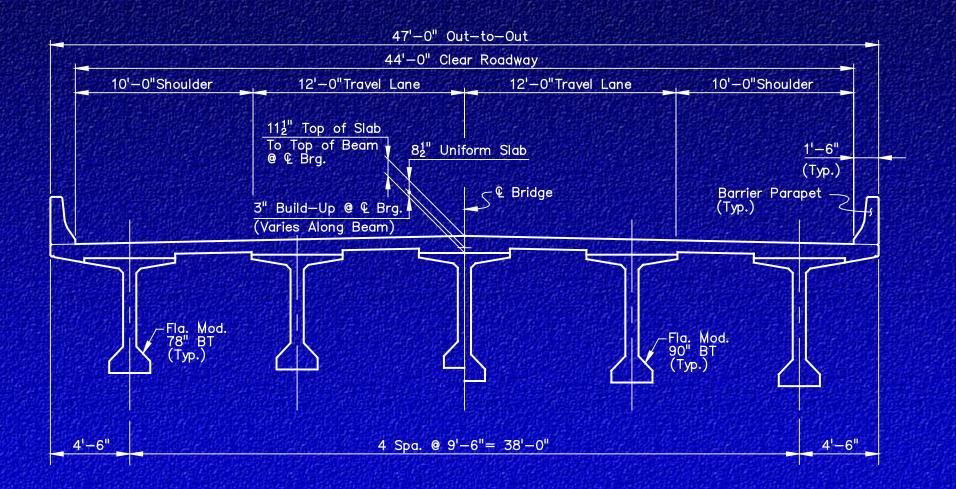


# Two Span Design Example



- Five girder segments
- Falsework towers at in-span splices
- Splice at pier in integral cap
- Two stage post-tensioning
- Seismic site

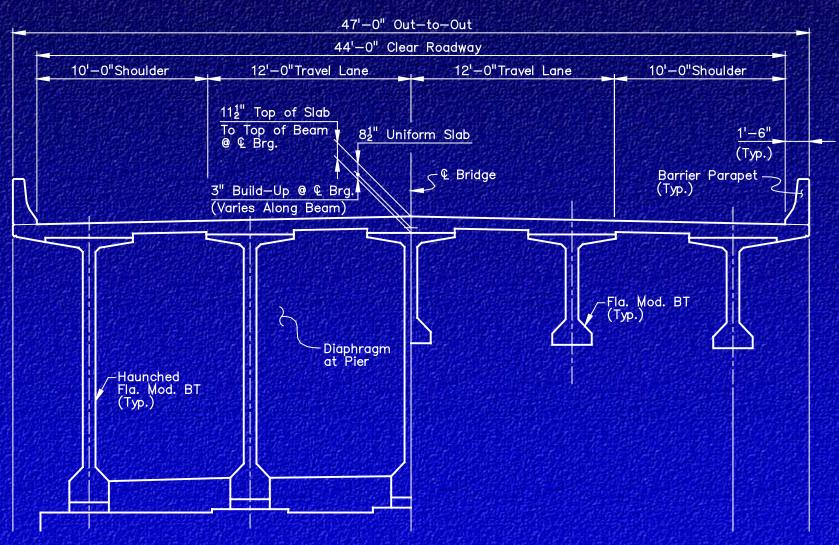
### Three Span Design Example



END GIRDER SEGMENT

DROP-IN GIRDER SEGMENT

## Three Span Design Example



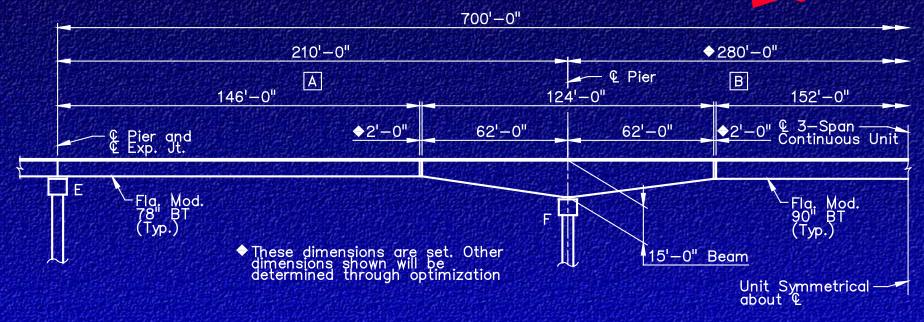
HALF SECTION AT PIER

HALF SECTION AT SPLICE

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### Three Span Design Example

Continue



- Five girder segments
- Falsework towers at outer span splices
- Strong backs at main span splices
- Staged post-tensioning